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IET CNF	IET Conference Proceeding
IEEE STD	IEEE Standard

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□ 1. A Smart Card Mediated Mobile Platform for Secure E-Mail Communication
Kardas, Geylani; Celikel, Ebru;
Information Technology, 2007. ITNG '07. Fourth International Conference on
2-4 April 2007 Page(s):925 - 928
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1 Smart Cards and Biometrics: The cool way to make secure transactions
David Corcoran, David Sims, Bob Hillhouse
March 1999 Linux Journal, Volume 1999 Issue 59es
Publisher: Specialized Systems Consultants, Inc.
Full text available: html(22.95 KB) Additional Information: full citation, index terms

2 Muscle Flexes Smart Cards into Linux
David Corcoran
August 1998 Linux Journal, Volume 1998 Issue 52es
Publisher: Specialized Systems Consultants, Inc.
Full text available: html(16.89 KB) Additional Information: full citation, abstract, index terms

The newest kind of card for your pocketbook offers better security for the information it holds

3 Power consumption profile analysis for security attack simulation in smart cards at high abstraction level
K. Rothbart, U. Neffe, Ch. Steger, R. Weiss, E. Rieger, A. Muehlberger
September 2005 EMSOFT '05: Proceedings of the 5th ACM international conference on Embedded software
Publisher: ACM
Full text available: pdf(273.40 KB) Additional Information: full citation, abstract, references, index terms

Smart cards are embedded systems which are used in an increasing number of secure applications. As they store and deal with confidential and secret data many attacks are performed on these cards to reveal this private information. Consequently, the security ...

Keywords: SystemC, analysis, attack, embedded security, fault injection, power profile, simulation, smart card

4 Distributed PIN verification scheme for improving security of mobile devices
Jian Tang, Vagan Terziyan, Jari Veijalainen
April 2003 Mobile Networks and Applications, Volume 8 Issue 2
Publisher: Kluwer Academic Publishers
Full text available: pdf(298.43 KB) Additional Information: full citation, abstract, references, cited by, index terms

The main driving force for the rapid acceptance rate of small sized mobile devices is the capability to perform e-commerce transactions at any time and at any place, especially while on the move. There are, however, also weaknesses of this type of e-commerce, ...

Keywords: measure, mobile device, probability, risks, security, uncover

5 Who's got the key?
David Henry
November 1999 SIGUCCS '99: Proceedings of the 27th annual ACM SIGUCCS conference on User services: Mile high expectations
Publisher: ACM
Full text available: pdf(30.32 KB) Additional Information: full citation, references, index terms

Keywords: PKI, certificate authority, encryption

6 Design of a scalable RSA and ECC crypto-processor
Ming-Cheng Sun, Chih-Pin Su, Chih-Tsun Huang, Cheng-Wen Wu
January 2003 ASPDAC: Proceedings of the 2003 conference on Asia South Pacific design automation
Publisher: ACM
Full text available: pdf(127.33 KB) Additional Information: full citation, abstract, references, cited by

In this paper, we propose a scalable word-based crypto-processor that performs modular multiplication based on modified Montgomery algorithm for finite fields $GF(P)$ and $GF(2^m)$. The unified crypto-processor supports scalable ...

7 Some facets of complexity theory and cryptography: A five-lecture tutorial
Jörg Rothe
December 2002 ACM Computing Surveys (CSUR), Volume 34 Issue 4
Publisher: ACM
Full text available: pdf(2.78 MB) Additional Information: full citation, abstract, references, cited by, index terms, review

In this tutorial, selected topics of cryptology and of computational complexity theory are presented. We give a brief overview of the history and the foundations of classical cryptography, and then move on to modern public-key cryptography. Particular ...

Keywords: Complexity theory, interactive proof systems, one-way functions, public-key cryptography, zero-knowledge protocols

8 Anonymous E-prescriptions
Giuseppe Ateniese, Breno de Medeiros

November 2002 WPES '02: Proceedings of the 2002 ACM workshop on Privacy in the Electronic Society
Publisher: ACM
Full text available: pdf(304.10 KB) Additional Information: full citation, abstract, references

This paper studies issues related to privacy protection of medical data, arguing that the topic is suitable for applied cryptographic research.We present the problem of medicine prescription privacy and describe a practical system that employs standard ...

Keywords: medical information privacy, privacy-preserving cryptographic techniques, public-key cryptography

9 Taking the best from a company history - designing with interaction styles
Trond Are Øritsland, Jacob Buur
August 2000 DIS '00: Proceedings of the 3rd conference on Designing interactive systems: processes, practices, methods, and techniques
Publisher: ACM
Full text available: pdf(1.49 MB) Additional Information: full citation, abstract, references, cited by, index terms

In architecture and industrial design, the concept of style plays a major role in education as a way of explaining the historical inheritance and comparing alternative design expressions.In this article we claim that interaction design can benefit greatly ...

Keywords: interaction design, interaction style, quality in use, solid user interface

10 Zero-interaction authentication
Mark D. Corner, Brian D. Noble
September 2002 MobiCom '02: Proceedings of the 8th annual international conference on Mobile computing and networking
Publisher: ACM
Full text available: pdf(273.30 KB) Additional Information: full citation, abstract, references, cited by, index terms

Laptops are vulnerable to theft, greatly increasing the likelihood of exposing sensitive files. Unfortunately, storing data in a cryptographic file system does not fully address this problem. Such systems ask the user to imbue them with long-term authority ...

Keywords: cryptographic file systems, mobile computing, stackable file systems, transient authentication

11 Security wrappers and power analysis for SoC technologies
C. H. Gebotys, Y. Zhang
October 2003 CODES+ISSS '03: Proceedings of the 1st IEEE/ACM/IFIP international conference on Hardware/software codesign and system synthesis
Publisher: ACM
Full text available: pdf(790.57 KB) Additional Information: full citation, abstract, references, cited by, index terms

Future wireless internet enabled devices will be increasingly powerful supporting many more applications including one of the most crucial, security. Although SoCs offer more resistance to bus probing attacks, power/EM attacks on cores and network snooping ...

Keywords: VLIW, adiabatic, design, performance, security

12 Using GSM to enhance e-commerce security
Vorapranee Khu-smith, Chris J. Mitchell
September 2002 WMC '02: Proceedings of the 2nd international workshop on Mobile commerce
Publisher: ACM
Full text available: pdf(177.48 KB) Additional Information: full citation, abstract, references, cited by, index terms

Today, an e-commerce transaction is typically protected using SSL/TLS@. However, there remain some risks in such use of SSL/TLS@. These include that of information being stored in clear at the end point of the communication link and lack of user authentication. ...

Keywords: E-commerce security, GSM security, mobile or Internet payment protocol

13 Current mask generation: a transistor level security against DPA attacks
Daniel Mesquita, Jean-Denis Techer, Lionel Torres, Gilles Sassatelli, Gaston Cambon, Michel Robert, Fernando Moraes
September 2005 SBCCI '05: Proceedings of the 18th annual symposium on Integrated circuits and system design
Publisher: ACM
Full text available: pdf(513.86 KB) Additional Information: full citation, abstract, references, index terms

The physical implementation of cryptographic algorithms may leak to some attacker security information by the side channel data, as power consumption, timing, temperature or electromagnetic emanation. The Differential Power Analysis (DPA) is a powerful ...

Keywords: DPA, countermeasures, cryptography, side channel attacks

14 Adapting globus and kerberos for a secure ASCI grid
Patrick C. Moore, Wilbur R. Johnson, Richard J. Detry
November 2001 Supercomputing '01: Proceedings of the 2001 ACM/IEEE conference on Supercomputing (CDROM)
Publisher: ACM
Full text available: pdf(143.26 KB) Additional Information: full citation, abstract, references, index terms

Porting a complex secure application from one security infrastructure to another is often difficult or impractical. Grid security associated with the Globus toolkit is supported by a Grid Security Infrastructure (GSI) based on a Public Key Infrastructure ...

Keywords: ASCI, GSSAPI, globus, grid, kerberos, security

15 Untraceable RFID tags via insubvertible encryption
Giuseppe Ateniese, Jan Camenisch, Breno de Medeiros
November 2005 CCS '05: Proceedings of the 12th ACM conference on Computer and communications security
Publisher: ACM
Full text available: pdf(238.38 KB) Additional Information: full citation, abstract, references, cited by, index terms

We introduce a new cryptographic primitive, called *insubvertible encryption*, that produces ciphertexts which can be randomized without the need of any key material. Unlike plain universal re-encryption schemes, insubvertible encryption prevents ...

Keywords: RFID privacy, bilinear maps, universal re-encryption

16 Requirements traceability in automated test generation: application to smart card software validation
F. Bouquet, E. Jaffuel, B. Legeard, F. Peureux, M. Utting
May 2005 A-MOST '05: Proceedings of the 1st international workshop on Advances in model-based testing
Publisher: ACM
Full text available: pdf(685.74 KB) Additional Information: full citation, abstract, references, index terms

Automated test case and test driver generation from a formal model is becoming a more widely used practice in the smart card area. This innovative approach for validation testing makes it possible to ensure the functional coverage of the test suite and ...

Keywords: formal model, model-based testing, requirements traceability

17 A Low Device Occupation IP to Implement Rijndael Algorithm
Alex Panato, Marcelo Barcelos, Ricardo Reis
March 2003 DATE '03: Proceedings of the conference on Design, Automation and Test in Europe: Designers' Forum - Volume 2, Volume 2
Publisher: IEEE Computer Society
Full text available: pdf(455.68 KB) Publisher Site Additional Information: full citation, abstract, index terms

This work presents a soft IP description of Rijndael, the Advanced Encryption Standard (AES) of National Institute of Standards and Technology (NIST). This Rijndael implementation run its symmetric cipher algorithm using a key size of 128 bits, mode ...

18 Security on FPGAs: State-of-the-art implementations and attacks
Thomas Wollinger, Jorge Guajardo, Christof Paar
August 2004 ACM Transactions on Embedded Computing Systems (TECS), Volume 3 Issue 3
Publisher: ACM
Full text available: pdf(296.79 KB) Additional Information: full citation, abstract, references, index terms

In the last decade, it has become apparent that embedded systems are integral parts of our every day lives. The wireless nature of many embedded applications as well as their omnipresence has made the need for security and privacy preserving mechanisms ...

Keywords: Cryptography, FPGA, attacks, cryptographic applications, reconfigurable hardware, reverse engineering, security

19 Spy-resistant keyboard: more secure password entry on public touch screen displays

Desney S. Tan, Pedram Keyani, Mary Czerwinski
November 2005 OZCHI '05: Proceedings of the 19th conference of the computer-human interaction special interest group (CHISIG) of Australia on Computer-human interaction: citizens online: considerations for today and the future
Publisher: Computer-Human Interaction Special Interest Group (CHISIG) of Australia
Full text available: pdf(454.44 KB) Additional Information: full citation, abstract, references

Current software interfaces for entering text on touch screen devices mimic existing mechanisms such as keyboard typing or handwriting. These techniques are poor for entering private text such as passwords since they allow observers to decipher what ...

Keywords: input technique, keyboard, password, selective attention, touch screen, visual search

20 A context-related authorization and access control method based on RBAC:

Marc Wilikens, Simone Feriti, Alberto Sanna, Marcelo Masera
June 2002 SACMAT '02: Proceedings of the seventh ACM symposium on Access control models and technologies
Publisher: ACM
Full text available: pdf(260.70 KB) Additional Information: full citation, abstract, references, cited by, index terms

This paper describes an application of authorization and access control based on the Role Based Access Control (RBAC) method and integrated in a comprehensive trust infrastructure of a health care application. The method is applied to a health care business ...

Keywords: role based access control (RBAC), secure health care system, trust infrastructure

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21 Protected transmission of biometric user authentication data for oncard-matching

Ulrich Waldmann, Dirk Scheuermann, Claudia Eckert
March 2004 SAC '04: Proceedings of the 2004 ACM symposium on Applied computing
Publisher: ACM

Full text available: pdf(574.45 KB) Additional Information: full citation, abstract, references, cited by

Since fingerprint data are no secrets but of public nature, the verification data transmitted to a smartcard for oncard-matching need protection by appropriate means in order to assure data origin in the biometric sensor and to prevent bypassing the ...

Keywords: authentication, biometrics, cryptographic protocols, data integrity, electronic signature, oncard-matching, smartcards, system security, tamper proof environment

22 Secure scan: a design-for-test architecture for crypto chips

Bo Yang, Kaijie Wu, Ramesh Karri
June 2005 DAC '05: Proceedings of the 42nd annual conference on Design automation
Publisher: ACM

Full text available: pdf(234.65 KB) Additional Information: full citation, abstract, references, index terms

Scan-based Design-for-Test (DFT) is a powerful testing scheme, but it can be used to retrieve the secrets stored in a crypto chip thus compromising its ...

Keywords: crypto hardware, scan-based DFT, security, testability

23 On-line e-wallet system with decentralized credential keepers

Stig Frode Mjølsnes, Chunming Rong
February 2003 Mobile Networks and Applications, Volume 8 Issue 1
Publisher: Kluwer Academic Publishers

Full text available: pdf(240.23 KB) Additional Information: full citation, abstract, references, cited by, index terms

We propose a generalization of the architecture of an electronic wallet, as first developed in the seminal European research project CAFE. With this model you can leave most of the content of your electronic wallet at the security of your residential ...

Keywords: digital credentials, e-wallet architecture, mobile commerce, payment protocols, privacy

24 Planning for code buffer management in distributed virtual execution environments
Shukang Zhou, Bruce R. Childers, Mary Lou Soffa
June 2005 VEE '05: Proceedings of the 1st ACM/USENIX international conference on Virtual execution environments
Publisher: ACM
Full text available: pdf(216.28 KB) Additional Information: full citation, abstract, references, cited by, index terms

Virtual execution environments have become increasingly useful in system implementation, with dynamic translation techniques being an important component for performance-critical systems. Many devices have exceptionally tight performance and memory constraints ...

Keywords: adaptive code cache, code buffer, distributed environments, dynamic translation, generational cache, program partitioning

25 Shake them up!: a movement-based pairing protocol for CPU-constrained devices
Claude Castelluccia, Pars Mutaf
June 2005 MobiSys '05: Proceedings of the 3rd international conference on Mobile systems, applications, and services
Publisher: ACM
Full text available: pdf(295.02 KB) Additional Information: full citation, abstract, references, cited by, index terms

This paper presents a new pairing protocol that allows two CPU-constrained wireless devices Alice and Bob to establish a shared secret at a very low cost. To our knowledge, this is the first software pairing scheme that does not rely on expensive public-key ...

26 A simple mechanism for capturing and replaying wireless channels
Glenn Judd, Peter Steenkiste
August 2005 E-WIND '05: Proceeding of the 2005 ACM SIGCOMM workshop on Experimental approaches to wireless network design and analysis
Publisher: ACM
Full text available: pdf(6.06 MB) Additional Information: full citation, abstract, references, cited by, index terms

Physical layer wireless network emulation has the potential to be a powerful experimental tool. An important challenge in physical emulation, and traditional simulation, is to accurately model the wireless channel. In this paper we examine the possibility ...

Keywords: channel capture, emulation, wireless

27 Protecting file systems with transient authentication
Mark D. Corner, Brian D. Noble
January 2005 Wireless Networks, Volume 11 Issue 1-2
Publisher: Kluwer Academic Publishers

Full text available: pdf(422.63 KB) Additional Information: full citation, abstract, references, index terms

Laptops are vulnerable to theft, greatly increasing the likelihood of exposing sensitive files. Unfortunately, storing data in a cryptographic file system does not fully address this problem. Such systems ask the user to imbue them with long-term authority ...

28 Requirements traceability in automated test generation: application to smart card software validation
F. Bouquet, E. Jaffuel, B. Legeard, F. Peureux, M. Utting
July 2005 ACM SIGSOFT Software Engineering Notes, Volume 30 Issue 4
Publisher: ACM

Full text available: pdf(685.74 KB) Additional Information: full citation, abstract, references, index terms

Automated test case and test driver generation from a formal model is becoming a more widely used practice in the smart card area. This innovative approach for validation testing makes it possible to ensure the functional coverage of the test suite and ...

Keywords: formal model, model-based testing, requirements traceability

29 At home with the technology: an ethnographic study of a set-top-box trial
Jon O'Brien, Tom Rodden, Mark Rouncefield, John Hughes
September 1999 ACM Transactions on Computer-Human Interaction (TOCHI), Volume 6 Issue 3
Publisher: ACM

Full text available: pdf(438.27 KB) Additional Information: full citation, references, cited by, index terms, review

Keywords: coordination and collaboration, domestic environment, ethnography, evaluation, interactive devices

30 Business: The 8th layer: Will the digital signature transform e-commerce?
Kate Gerwig
September 2000 netWorker, Volume 4 Issue 3
Publisher: ACM

Full text available: pdf(502.72 KB) html(13.80 KB) Additional Information: full citation, index terms

31

Current flattening in software and hardware for security applications
Radu Muresan, Catherine Gebotys
September 2004 CODES+ISSS '04: Proceedings of the 2nd IEEE/ACM/IFIP international conference on Hardware/software codesign and system synthesis
Publisher: ACM
Full text available: pdf(344.68 KB) Additional Information: full citation, abstract, references, index terms

This paper presents a new current flattening technique applicable in software and hardware. This technique is important in embedded cryptosystems since power analysis attacks (that make use of the current variation dependency on data and program) compromise ...

Keywords: current flattening, hardware architecture, power analysis attacks

32 Report of the national workshop on internet voting: issues and research agenda
C. D. Mote, Jr.
May 2002 dg.o '02: Proceedings of the 2002 annual national conference on Digital government research
Publisher: Digital Government Research Center
Full text available: pdf(539.99 KB) Additional Information: full citation

33 Defending wireless infrastructure against the challenge of DDoS attacks
Xianjun Geng, Yun Huang, Andrew B. Whinston
June 2002 Mobile Networks and Applications, Volume 7 Issue 3
Publisher: Kluwer Academic Publishers
Full text available: pdf(313.57 KB) Additional Information: full citation, abstract, references, cited by, index terms

This paper addresses possible Distributed Denial-of-Service (DDoS) attacks toward the wireless Internet including the Wireless Extended Internet, the Wireless Portal Network, and the Wireless Ad Hoc network. We propose a conceptual model for defending ...

Keywords: DDoS attack, PBN, wireless ad hoc network, wireless extended internet, wireless infrastructure, wireless portal network

34 Software security and privacy risks in mobile e-commerce
Anup K. Ghosh, Tara M. Swaminatha
February 2001 Communications of the ACM, Volume 44 Issue 2
Publisher: ACM
Full text available: pdf(90.58 KB) html(38.81 KB) Additional Information: full citation, appendices and supplements, references, cited by, index terms

35 A smartcard for authentication in WLANs
Marc Loutrel, Pascal Urien, Guy Pujolle
October 2003 LANC '03: Proceedings of the 2003 IFIP/ACM Latin America conference on Towards a Latin American agenda for network research
Publisher: ACM
Full text available: pdf(333.05 KB) Additional Information: full citation, abstract, references, index terms

Wireless LANs based on the IEEE 802.11b standard have spread very quickly over the past few years. Nevertheless a lot of security issues remain and stop its deployment in corporations. One of the most important issues is the authentication of a terminal ...

Keywords: authentication, smartcard, wireless LANs

36 The blocker tag: selective blocking of RFID tags for consumer privacy
Ari Juels, Ronald L. Rivest, Michael Szydlo
October 2003 CCS '03: Proceedings of the 10th ACM conference on Computer and communications security
Publisher: ACM
Full text available: pdf(223.05 KB) Additional Information: full citation, abstract, references, cited by, index terms

We propose the use of "selective blocking" by "blocker tags" as a way of protecting consumers from unwanted scanning of RFID tags attached to items they may be carrying or wearing.While an ordinary RFID tag is a simple, cheap (e.g. five-cent) passive ...

Keywords: RFID tags, barcodes, privacy, tree walking

37 Consumer perceptions of privacy, security and trust in ubiquitous commerce
George Roussos, Theano Moussouri
November 2004 Personal and Ubiquitous Computing, Volume 8 Issue 6
Publisher: Springer-Verlag
Full text available: pdf(378.27 KB) Additional Information: full citation, abstract, cited by, index terms

Commerce is a rapidly emerging application area of ubiquitous computing. In this paper, we discuss the market forces that make the deployment of ubiquitous commerce infrastructures a priority for grocery retailing. We then proceed to report on a study ...

38 Payments and banking with mobile personal devices
Amir Herzberg
May 2003 Communications of the ACM, Volume 46 Issue 5
Publisher: ACM
Full text available: pdf(152.82 KB) html(31.60 KB) Additional Information: full citation, abstract, references, cited by, index terms, review

Mobile devices enable secure, convenient authorization of e-banking, retail payment, brokerage, and other types of transactions.

39 Securing wireless data: system architecture challenges
Srivaths Ravi, Anand Raghunathan, Nachiketh Potlapally
October 2002 | SSS '02: Proceedings of the 15th international symposium on System Synthesis
Publisher: ACM
Full text available: pdf(172.35 KB) Additional Information: full citation, abstract, references, cited by, index terms

Security is critical to a wide range of current and future wireless data applications and services. This paper highlights the challenges posed by the need for security during system architecture design for wireless handsets, and provides an overview ...

Keywords: 3DES, AES, DES, IPSec, RSA, SSL, WTLS, decryption, design methodology, embedded system, encryption, handset, mobile computing, performance, platform, security, security processing, system architecture, wireless communications

40 Secure internet access to SAP's R-3: keeping dragons out
Katherine Jones
May 1998 International Journal of Network Management, Volume 8 Issue 3
Publisher: John Wiley & Sons, Inc.
Full text available: pdf(167.01 KB) Additional Information: full citation, abstract, index terms

The security of the networking environment is critical for today's corporations. Issues such as reliably identifying remote-access users, checking authorizations, data-transfer security and database security are of paramount importance. This article ...

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41 Projectors: advanced graphics and vision techniques
Ramesh Raskar
August 2004 SIGGRAPH '04: ACM SIGGRAPH 2004 Course Notes
Publisher: ACM
Full text available: pdf(6.53 MB) Additional Information: full citation, cited by

42 Statistics and secret leakage
Jean-Sebastien Coron, David Naccache, Paul Kocher
August 2004 ACM Transactions on Embedded Computing Systems (TECS), Volume 3 Issue 3
Publisher: ACM
Full text available: pdf(218.95 KB) Additional Information: full citation, abstract, references, cited by, index terms

In addition to its usual complexity assumptions, cryptography silently assumes that information can be physically protected in a single location. As one can easily imagine, real-life devices are not ideal and information may leak through different physical ...

Keywords: Cryptography, side-channel analysis

43 Information-rich commerce at a crossroads: business and technology adoption requirements
Robert G. Fichman, Mary J. Cronin
September 2003 Communications of the ACM, Volume 46 Issue 9
Publisher: ACM
Full text available: pdf(108.80 KB) Additional Information: full citation, abstract, references, cited by, index terms

The day is approaching when most of our common transactions may be information-rich, but first an extensive supporting infrastructure must be developed in three areas: devices, networking, and trust.

44 Risks to the public in computers and related systems
Peter G. Neumann
March 2003 ACM SIGSOFT Software Engineering Notes, Volume 28 Issue 2
Publisher: ACM
Full text available: pdf(221.43 KB) Additional Information: full citation, cited by

45 Report of the national workshop on internet voting: issues and research agenda
C. D. Mote, Jr.
May 2000 dg.o '00: Proceedings of the 2000 annual national conference on Digital government research
Publisher: Digital Government Research Center
Full text available: pdf(539.99 KB) Additional Information: full citation, abstract

As use of the Internet in commerce, education and personal communication has become common, the question of Internet voting in local and national elections naturally arises. In addition to adding convenience and precision, some believe that Internet ...

46 PicoDBMS: Scaling down database techniques for the smartcard
Philippe Pucheral, Luc Bouganim, Patrick Valduriez, Christophe Bobineau
September 2001 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 10 Issue 2-3
Publisher: Springer-Verlag New York, Inc.
Full text available: pdf(259.03 KB) Additional Information: full citation, abstract, references, cited by, index terms

Smartcards are the most secure portable computing device today. They have been used successfully in applications involving money, and proprietary and personal data (such as banking, healthcare, insurance, etc.). As smartcards get more powerful (with ...

Keywords: Atomicity, Durability, Execution model, PicoDBMS, Query optimization, Smartcard applications, Storage model

47 Risks to the public
Peter G. Neumann
May 2005 ACM SIGSOFT Software Engineering Notes, Volume 30 Issue 3
Publisher: ACM
Full text available: pdf(177.87 KB) Additional Information: full citation, abstract, index terms

Edited by Peter G. Neumann (Risks Forum Moderator and Chairman of the ACM Committee on Computers and Public Policy), plus personal contributions by others, as indicated. Opinions expressed are individual rather than organizational, and all of the usual ...

48 MediaAlert - a broadcast video monitoring and alerting system for mobile users
Bin Wei, Bernard Renger, Yih-Farn Chen, Rittwik Jana, Huale Huang, Lee Begeja, David Gibbon, Zhu Liu, Behzad Shahraray

June 2005 MobiSys '05: Proceedings of the 3rd international conference on Mobile systems, applications, and services
Publisher: ACM
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We present a system for automatic monitoring and timely dissemination of multimedia information to a range or mobile information appliances based on each user's interest profile. Multimedia processing algorithms detect and isolate relevant video segments ...

Keywords: alerting, automatic speech recognition (ASR), content adaptation, content repurposing, mobile devices, multimedia messaging, multimedia processing, news monitoring, notification, service platform

49 Seeing, hearing, and touching: putting it all together
Brian Fisher, Sidney Fels, Karon MacLean, Tamara Munzner, Ronald Rensink
August 2004 SIGGRAPH '04: ACM SIGGRAPH 2004 Course Notes
Publisher: ACM
Full text available: pdf(20.64 MB) Additional Information: full citation, cited by

50 Protecting applications with transient authentication
Mark D. Corner, Brian D. Noble
May 2003 MobiSys '03: Proceedings of the 1st international conference on Mobile systems, applications and services
Publisher: ACM
Full text available: pdf(294.40 KB) Additional Information: full citation, abstract, references, cited by

How does a machine know who is using it? Current systems authenticate their users infrequently, and assume the user's identity does not change. Such *persistent authentication* is inappropriate for mobile and ubiquitous systems, where associations ...

51 Perils and pitfalls of practical cybercommerce
Nathaniel S. Borenstein
June 1996 Communications of the ACM, Volume 39 Issue 6
Publisher: ACM
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52 NETKIT: a software component-based approach to programmable networking
Geoff Coulson, Gordon Blair, David Hutchison, Ackbar Joolia, Kevin Lee, Jo Ueyama, Antonio Gomes, Yimin Ye
October 2003 ACM SIGCOMM Computer Communication Review, Volume 33 Issue 5
Publisher: ACM
Full text available: pdf(316.64 KB) Additional Information: full citation, abstract, references, cited by, index terms

While there has already been significant research in support of openness and programmability in networks, this paper argues that there remains a need for generic support for the integrated development, deployment and management of programmable networking ...

Keywords: components, middleware, programmable networking, reflection

53 Risks to the public
Peter G. Neumann
July 2005 ACM SIGSOFT Software Engineering Notes, Volume 30 Issue 4
Publisher: ACM
Full text available: pdf(151.77 KB) Additional Information: full citation, abstract, index terms

Edited by Peter G. Neumann (Risks Forum Moderator and Chairman of the ACM Committee on Computers and Public Policy), plus personal contributions by others, as indicated. Opinions expressed are individual rather than organizational, and all of the usual ...

54 Securing Mobile Appliances: New Challenges for the System Designer
Anand Raghunathan, Srivaths Ravi, Sunil Hattangady, Jean-Jacques Quisquater
March 2003 DATE '03: Proceedings of the conference on Design, Automation and Test in Europe - Volume 1, Volume 1
Publisher: IEEE Computer Society
Full text available: pdf(257.28 KB) Publisher Site Additional Information: full citation, abstract, references, cited by, index terms

As intelligent electronic systems pervade all aspects of our lives, capturing, storing, and communicating a wide range of sensitive and personal data, security is emerging as a critical concern that must be addressed in order to enable several current ...

55 Understanding human reactivites and relationships: an excerpt from Leonardo's laptop
Ben Shneiderman
September 2002 interactions, Volume 9 Issue 5
Publisher: ACM
Full text available: pdf(426.22 KB) html(65.97 KB) Additional Information: full citation, abstract, index terms

"These notes reveal the intimate tie in Leonardo's thinking between... phenomena in general and the need to put such information to practical use."<BR>--- A. Richard Turner, *Inventing Leonardo*, 1994, p 184

56 Component-based interchangeable cryptographic architecture for securing wireless connectivity in Java^{TM} applications
Johnny Li-Chang Lo, Judith Bishop
September 2003 SAICSIT '03: Proceedings of the 2003 annual research conference of the South African institute of computer scientists and information technologists on Enablement through technology

Publisher: South African Institute for Computer Scientists and Information Technologists
Full text available: pdf(147.85 KB) Additional Information: full citation, abstract, references, index terms

The development of Java based wireless applications presents challenges such as securing communication and authentication between mobile devices and a server. It is acknowledged that cryptography is commonly used to secure network communications and ...

Keywords: component, cryptography, general packet radio services, global system for mobile applications, mobile devices, protocols, separation of concerns, wireless application protocol, wireless transport layer security

57 What is money?
Ray Byler
April 2004 MSCCC '04: Proceedings of the 2nd annual conference on Mid-south college computing
Publisher: Mid-South College Computing Conference
Full text available: pdf(204.52 KB) Additional Information: full citation, abstract, references

Do you really know what money is? Most of the money that exists today doesn't exit as greenbacks in someone's wallet or gold in a Vault, but as 1's and 0's in some computer. What exactly is money then, and how does digital money differ from "real" money? ...

58 Proceedings of the 2004 conference on Asia South Pacific design automation: electronic design and solution fair: electronic design and solution fair
Masaharu Imai
January 2004 proceeding
Publisher: IEEE Press
Additional Information: full citation, abstract

It is my pleasure and honor, on behalf of the Organizing Committee, to welcome you to the Asia and South Pacific Design Automation Conference 2004 (ASP-DAC 2004), a sister conference of DAC, DATE, and ICCAD. ASP-DAC 2004 will be held at Pacifico Yokohama, ...

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IEEE CNF	IEEE Conference Proceeding
IET CNF	IET Conference Proceeding
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1 Smart Cards and Biometrics: The cool way to make secure transactions
David Corcoran, David Sims, Bob Hillhouse
March 1999 Linux Journal, Volume 1999 Issue 59es
Publisher: Specialized Systems Consultants, Inc.
Full text available: html(22.95 KB) Additional Information: full citation, index terms

2 Muscle Flexes Smart Cards into Linux
David Corcoran
August 1998 Linux Journal, Volume 1998 Issue 52es
Publisher: Specialized Systems Consultants, Inc.
Full text available: html(16.89 KB) Additional Information: full citation, abstract, index terms

The newest kind of card for your pocketbook offers better security for the information it holds

3 Distributed PIN verification scheme for improving security of mobile devices
Jian Tang, Vagan Terziyan, Jari Veijalainen
April 2003 Mobile Networks and Applications, Volume 8 Issue 2
Publisher: Kluwer Academic Publishers
Full text available: pdf(298.43 KB) Additional Information: full citation, abstract, references, cited by, index terms

The main driving force for the rapid acceptance rate of small sized mobile devices is the capability to perform e-commerce transactions at any time and at any place, especially while on the move. There are, however, also weaknesses of this type of e-commerce, ...

Keywords: measure, mobile device, probability, risks, security, uncover

4 Privacy and security threat analysis of the federal employee personal identity verification (PIV) program
Paul A. Karger
July 2006 SOUPS '06: Proceedings of the second symposium on Usable privacy and

security
Publisher: ACM
Full text available: pdf(113.11 KB) Additional Information: full citation, abstract, references, index terms

This paper is a security and privacy threat analysis of new Federal Information Processing Standard for Personal Identity Verification (FIPS PUB 201). It identifies some problems with the standard, and it proposes solutions to those problems, using standardized ...

Keywords: personal identification, privacy, smart cards

5 Spy-resistant keyboard: more secure password entry on public touch screen displays
Desney S. Tan, Pedram Keyani, Mary Czerwinski
November 2005 OZCHI '05: Proceedings of the 19th conference of the computer-human interaction special interest group (CHISIG) of Australia on Computer-human interaction: citizens online: considerations for today and the future
Publisher: Computer-Human Interaction Special Interest Group (CHISIG) of Australia
Full text available: pdf(454.44 KB) Additional Information: full citation, abstract, references

Current software interfaces for entering text on touch screen devices mimic existing mechanisms such as keyboard typing or handwriting. These techniques are poor for entering private text such as passwords since they allow observers to decipher what ...

Keywords: input technique, keyboard, password, selective attention, touch screen, visual search

6 What is your husband's name?: sociological dimensions of internet banking authentication
Supriya Singh, Anuja Cabraal, Gabriele Hermansson
November 2006 OZCHI '06: Proceedings of the 20th conference of the computer-human interaction special interest group (CHISIG) of Australia on Computer-human interaction: design: activities, artefacts and environments
Publisher: ACM
Full text available: pdf(205.49 KB) Additional Information: full citation, abstract, references, index terms

First order authentication of the privacy and security of Internet banking rests mainly on distinctive user names and passwords. Our qualitative study of banking, security and privacy shows it is common for married and de facto couples in Australia to ...

Keywords: Australia, Internet banking, authentication, qualitative research, security design, sociological dimensions

7 Password sharing: implications for security design based on social practice
Supriya Singh, Anuja Cabraal, Catherine Demosthenous, Gunela Astbrink, Michele Furlong
April 2007 CHI '07: Proceedings of the SIGCHI conference on Human factors in computing systems

Publisher: ACM

Full text available: pdf(118.90 KB) Additional Information: full citation, abstract, references, index terms

Current systems for banking authentication require that customers not reveal their access codes, even to members of the family. A study of banking and security in Australia shows that the practice of sharing passwords does not conform to this requirement. ...

Keywords: Australia, UCD, banking, security, sharing passwords, social and cultural centered design

8 Kimono: kiosk-mobile phone knowledge sharing system
Albert Huang, Kari Pulli, Larry Rudolph
December 2005 MUM '05: Proceedings of the 4th international conference on Mobile and ubiquitous multimedia
Publisher: ACM

Full text available: pdf(283.85 KB) Additional Information: full citation, abstract, references

The functionality of an information kiosk can be extended by allowing it to interact with a smartphone, as demonstrated by the Kimono system, and the user interface can be greatly simplified by "associations" between pieces of information. A kiosk provides ...

9 At home with the technology: an ethnographic study of a set-top-box trial
Jon O'Brien, Tom Rodden, Mark Rouncefield, John Hughes
September 1999 ACM Transactions on Computer-Human Interaction (TOCHI), Volume 6 Issue 3
Publisher: ACM

Full text available: pdf(438.27 KB) Additional Information: full citation, references, cited by, index terms, review

Keywords: coordination and collaboration, domestic environment, ethnography, evaluation, interactive devices

10 Risks to the public
Peter G. Neumann
January 2006 ACM SIGSOFT Software Engineering Notes, Volume 31 Issue 1
Publisher: ACM

Full text available: pdf(139.10 KB) Additional Information: full citation, abstract, index terms

Edited by Peter G. Neumann (Risks Forum Moderator and Chairman of the ACM Committee on Computers and Public Policy), plus personal contributions by others, as indicated. Opinions expressed are individual rather than organizational, and all of the usual ...

11 Payments and banking with mobile personal devices
Amir Herzberg
May 2003 Communications of the ACM, Volume 46 Issue 5
Publisher: ACM

Full text available: pdf(152.82 KB) html(31.60 KB) Additional Information: full citation, abstract, references, cited by, index terms, review

Mobile devices enable secure, convenient authorization of e-banking, retail payment, brokerage, and other types of transactions.

12 SmartSiren: virus detection and alert for smartphones
Jerry Cheng, Starsky H.Y. Wong, Hao Yang, Songwu Lu
June 2007 MobiSys '07: Proceedings of the 5th international conference on Mobile systems, applications and services
Publisher: ACM

Full text available: pdf(534.00 KB) Additional Information: full citation, abstract, references, index terms

Smartphones have recently become increasingly popular because they provide "all-in-one" convenience by integrating traditional mobile phones with handheld computing devices. However, the flexibility of running third-party softwares also leaves the smartphones ...

Keywords: alert, privacy, security, smartphone, virus detection

13 Information-rich commerce at a crossroads: business and technology adoption requirements
Robert G. Fichman, Mary J. Cronin
September 2003 Communications of the ACM, Volume 46 Issue 9
Publisher: ACM

Full text available: pdf(108.80 KB) Additional Information: full citation, abstract, references, cited by, index terms

The day is approaching when most of our common transactions may be information-rich, but first an extensive supporting infrastructure must be developed in three areas: devices, networking, and trust.

14 Risks to the public in computers and related systems
Peter G. Neumann
March 2003 ACM SIGSOFT Software Engineering Notes, Volume 28 Issue 2
Publisher: ACM

Full text available: pdf(221.43 KB) Additional Information: full citation, cited by

15 RFID and the end of cash?
Ian Angell, Jan Kietzmann
December 2006 Communications of the ACM, Volume 49 Issue 12
Publisher: ACM

Full text available: pdf(965.22 KB) html(29.48 KB) Additional Information: full citation, abstract, references, index terms

RFID-embedded money is likely to mean the end of anonymous transactions and with it one of the last bastions of personal anonymity.

16 Audio-visual multimodal fusion for biometric person authentication and liveness verification
Girija Chetty, Michael Wagner
April 2006 MMUI '05: Proceedings of the 2005 NICTA-HCSNet Multimodal User Interaction Workshop - Volume 57, Volume 57
Publisher: Australian Computer Society, Inc.
Full text available: pdf(719.65 KB) Additional Information: full citation, abstract, references, index terms

In this paper we propose a multimodal fusion framework based on novel face-voice fusion techniques for biometric person authentication and liveness verification. Checking liveness guards the system against spoof/replay attacks by ensuring that the biometric ...

Keywords: biometric authentication, liveness verification, multimodal fusion

17 Risks to the public
Peter G. Neumann
May 2005 ACM SIGSOFT Software Engineering Notes, Volume 30 Issue 3
Publisher: ACM
Full text available: pdf(177.87 KB) Additional Information: full citation, abstract, index terms

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18 Seeing, hearing, and touching: putting it all together
Brian Fisher, Sidney Fels, Karon MacLean, Tamara Munzner, Ronald Rensink
August 2004 SIGGRAPH '04: ACM SIGGRAPH 2004 Course Notes
Publisher: ACM
Full text available: pdf(20.64 MB) Additional Information: full citation, cited by

19 Perils and pitfalls of practical cybercommerce
Nathaniel S. Borenstein
June 1996 Communications of the ACM, Volume 39 Issue 6
Publisher: ACM
Full text available: pdf(465.63 KB) Additional Information: full citation, references, cited by, index terms, review

20 Risks to the public
Peter G. Neumann
July 2005 ACM SIGSOFT Software Engineering Notes, Volume 30 Issue 4
Publisher: ACM

Full text available: pdf(151.77 KB) Additional Information: full citation, abstract, index terms

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21 What is money?
Ray Byler
April 2004 MSCCC '04: Proceedings of the 2nd annual conference on Mid-south college computing
Publisher: Mid-South College Computing Conference
Full text available: pdf(204.52 KB) Additional Information: full citation, abstract, references

Do you really know what money is? Most of the money that exists today doesn't exit as greenbacks in someone's wallet or gold in a Vault, but as 1's and 0's in some computer. What exactly is money then, and how does digital money differ from "real" money? ...

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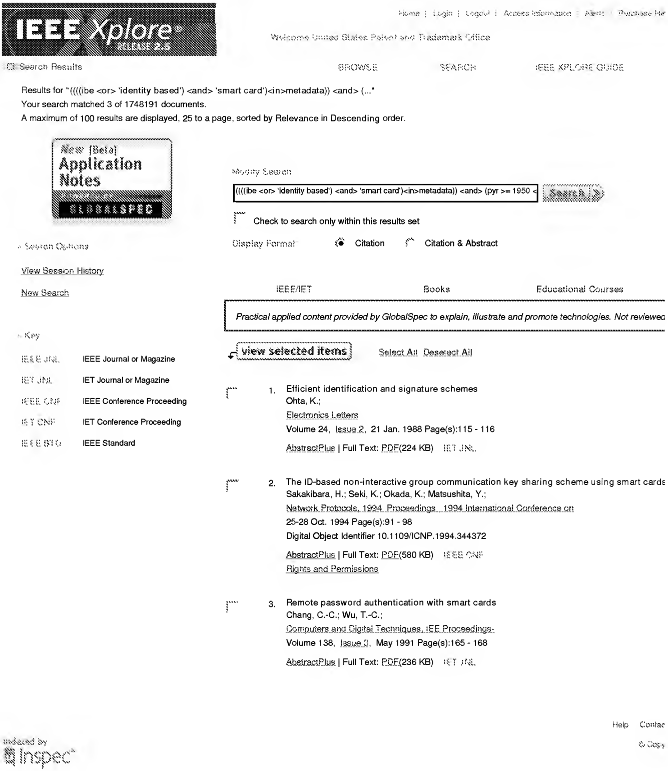
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IEEE STD	IEEE Standard

□ 1. Efficient identification and signature schemes
Ohta, K.;
Electronics Letters
Volume 24, Issue 2, 21 Jan. 1988 Page(s):115 - 116
AbstractPlus | Full Text: PDF(224 KB) IET JNL

□ 2. The ID-based non-interactive group communication key sharing scheme using smart cards
Sakakibara, H.; Seki, K.; Okada, K.; Matsushita, Y.;
Network Protocols, 1994. Proceedings., 1994 International Conference on
25-28 Oct. 1994 Page(s):91 - 98
Digital Object Identifier 10.1109/ICNP.1994.344372
AbstractPlus | Full Text: PDF(580 KB) IEEE CNF
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□ 3. Remote password authentication with smart cards
Chang, C.-C.; Wu, T.-C.;
Computers and Digital Techniques, IEE Proceedings-
Volume 138, Issue 3, May 1991 Page(s):165 - 168
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1 Card shark and thespis: exotic tools for hypertext narrative
Mark Bernstein
September 2001 HYPERTEXT '01: Proceedings of the twelfth ACM conference on Hypertext and Hypermedia
Publisher: ACM
Full text available: pdf(226.42 KB) Additional Information: full citation, abstract, references, cited by, index terms

Card Shark and Thespis are two newly-implemented hypertext systems for creating hypertext narrative. Both systems depart dramatically from the tools currently popular for writing hypertext fiction, and these departures may help distinguish between the ...

Keywords: fiction, hypertext systems, narrative, storyspace

2 A secure authentication and billing architecture for wireless mesh networks
Yanchao Zhang, Yuguang Fang
October 2007 Wireless Networks, Volume 13 Issue 5
Publisher: Kluwer Academic Publishers
Full text available: pdf(501.79 KB) Additional Information: full citation, abstract, references, index terms

Wireless mesh networks (WMNs) are gaining growing interest as a promising technology for ubiquitous high-speed network access. While much effort has been made to address issues at physical, data link, and network layers, little attention has been paid ...

Keywords: authentication, billing, roaming, security, wireless mesh networks (WMNs)

3 CMIFed: a presentation environment for portable hypermedia documents
Guido van Rossum, Jack Jansen, K. Sjoerd Mullender, Dick C. A. Bulterman
September 1993 MULTIMEDIA '93: Proceedings of the first ACM international conference on Multimedia
Publisher: ACM
Full text available: pdf(175.93 KB) ps(867.94 KB) Additional Information: full citation, references, cited by, index terms

Keywords: CMIF, editing environment, heterogeneity, hypermedia, multimedia, portability, scheduling, synchronization

4 Novel wire density driven full-chip routing for CMP variation control
Huang-Yu Chen, Szu-Jui Chou, Sheng-Lung Wang, Yao-Wen Chang
November 2007 ICCAD '07: Proceedings of the 2007 IEEE/ACM international conference on Computer-aided design
Publisher: IEEE Press
Full text available: pdf(1.29 MB) Additional Information: full citation, abstract, references

As nanometer technology advances, the post-CMP dielectric thickness variation control becomes crucial for manufacturing closure. To improve CMP quality, dummy feature filling is typically performed by foundries after the routing stage. However, filling ...

5 FPGA interconnect planning
Amit Singh, Malgorzata Marek-Sadowska
April 2002 SLIP '02: Proceedings of the 2002 international workshop on System-level interconnect prediction
Publisher: ACM
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We present an FPGA interconnect planning methodology based on the empirical measure known as Rent's Rule[8]. We show that allocation of wire segment lengths during the FPGA architecture planning phase can be improved by taking into account intercon¿nect ...

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